

Refine Search

Search Results -

Term	Documents
"5493223"	4
5493223S	0
"5493223".PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	4
(5493223).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	4

Database:

US Pre-Grant Publication Full-Text Database
 US Patents Full-Text Database
 US OCR Full-Text Database
 EPO Abstracts Database
 JPO Abstracts Database
 Derwent World Patents Index
 IBM Technical Disclosure Bulletins

Search:

L10

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Search History

DATE: Friday, March 18, 2005 [Printable Copy](#) [Create Case](#)

Set Name Query

side by side

Hit Count Set Name

result set

DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ

L10 5493223 4 L10

DB=USPT; PLUR=YES; OP=ADJ

L9 6311086.pn. 1 L9

L8 6311086.pn. 1 L8

L7 6472869.pn. 1 L7

L6 6472869.pn. 1 L6

L5 6538454.pn. 1 L5

L4 6538454.pn. 1 L4

DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ

L3 L2 and ((magnetic adj resonance) or MR or NMR or ESR) 5 L3

L2 L1 and (evanescent adj probe) 15 L2

Refine Search

Search Results -

Term	Documents
"5493223"	4
5493223S	0
"5493223".PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	4
(5493223).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	4

Database:

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L10 5493223 4 L10

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L9 6311086.pn. 1 L9

L8 6311086.pn. 1 L8

L7 6472869.pn. 1 L7

L6 6472869.pn. 1 L6

L5 6538454.pn. 1 L5

L4 6538454.pn. 1 L4

DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ

L3 L2 and ((magnetic adj resonance) or MR or NMR or ESR) 5 L3

L2 L1 and (evanescent adj probe) 15 L2

US-CL-PUBLISHED: 427/007

US-CL-CURRENT: 427/7

REPRESENTATIVE-FIGURES: NONE

ABSTRACT:

An organic or organoelement, linear or branched, monomeric or polymeric composition of matter having a Raman-active component in the form of particles. The particles having a maximum dimension of 50 .mu.m. The Raman-active compound is applied to a substrate. When the Raman-active compound is exposed to a laser light wavelength which is bathochromically well beyond a spectral region of maximum absorbance of said Raman-active compound, Raman scattering can be detected.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	AMC	Draw	U.
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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
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Term	Documents
MAGNETIC	1483825
MAGNETICS	12961
RESONANCE	294041
RESONANCES	17155
MR	77644
MRS	7933
NMR	145078
NMRS	252
ESR	8692
ESRS	187
(2 AND ((ESR OR MR) OR (MAGNETIC ADJ RESONANCE) OR NMR)).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	5
(L2 AND ((MAGNETIC ADJ RESONANCE) OR MR OR NMR OR ESR)).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	5

Display Format: [Previous Page](#)[Next Page](#)[Go to Doc#](#)

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Search Results - Record(s) 1 through 5 of 5 returned.

☐ 1. Document ID: US 20040196037 A1 Relevance Rank: 55**Using default format because multiple data bases are involved.**

L3: Entry 1 of 5

File: PGPB

Oct 7, 2004

PGPUB-DOCUMENT-NUMBER: 20040196037

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040196037 A1

TITLE: Detection with evanescent wave probe

PUBLICATION-DATE: October 7, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Xiang, Xiao Dong	Vanville	CA	US	
Yang, Haitao	Albany	CA	US	
Wang, Gang	Albany	CA	US	

US-CL-CURRENT: 324/300; 324/304, 324/316, 324/321

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	AMC	Draw D.
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☐ 2. Document ID: US 6693426 B1 Relevance Rank: 41

L3: Entry 4 of 5

File: USPT

Feb 17, 2004

US-PAT-NO: 6693426

DOCUMENT-IDENTIFIER: US 6693426 B1

TITLE: Spatially resolved spin resonance detection

DATE-ISSUED: February 17, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Xiang, Xiao Dong	Alameda	CA		
Wang, Gang	Albany	CA		
Yang, Haitao	Albany	CA		
Dionne, Gerald F.	Winchester	MA		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Intematix Corporation	Moraga	CA			02

APPL-NO: 10/ 071563 [PALM]

DATE FILED: February 9, 2002

INT-CL: [07] G01 V 3/00

US-CL-ISSUED: 324/300; 324/304

US-CL-CURRENT: 324/300; 324/304

FIELD-OF-SEARCH: 324/304, 324/300, 324/301, 324/305, 324/302, 324/637, 600/420

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>6311086</u>	October 2001	Ardenkjaer-Larsen	600/420
<u>6472869</u>	October 2002	Upschulte et al.	324/304
<u>6538454</u>	March 2003	Frenkel et al.	324/637

ART-UNIT: 2859

PRIMARY-EXAMINER: Gutierrez; Diego

ASSISTANT-EXAMINER: Shrivastav; Brij B.

ATTY-AGENT-FIRM: Schipper; John F.

ABSTRACT:

Methods for spatially resolve spin resonance detection in a sample of material, with a resolution as small as 0.5 .mu.m-1 mm. In one embodiment, a coupler having at least one pair of degenerate orthogonal modes provides an evanescent input signal along one coupler axis to the sample, to which a magnetic field is applied, and senses a spin interaction signal along another coupler axis. In another embodiment, an evanescent input signal is applied to the sample along one of two identical transmission line resonators, and a difference of the two resonator signals provides a spin interaction signal. In another embodiment, a polarized laser beam provides an evanescent input signal to the sample, and the spin interaction signal is sensed according to a second beam polarization direction. Certain ferromagnetic or ferrimagnetic molecules, such as YIG, can be used to tag selected chemical and biological molecules, using spatially resolved spin resonance detection for interrogation.

34 Claims, 15 Drawing figures

Full	Title	Creation	Front	Review	Classification	Date	Reference	Claims	Pub	Visa U
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☐ 3. Document ID: US 6610351 B2 Relevance Rank: 39

L3: Entry 5 of 5

File: USPT

Aug 26, 2003

US-PAT-NO: 6610351

DOCUMENT-IDENTIFIER: US 6610351 B2

TITLE: Raman-active taggants and their recognition

DATE-ISSUED: August 26, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Shchegolikhin; Alexander Nikitovich	Moscow			RU
Lazareva; Olga Leonidovna	Moscow			RU
Mel'nikov; Valery Pavlovich	Moscow			RU
Ozeretski; Vassili Yu	Moscow			RU
Small; Lyle David	Peyton	CO		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Quantag Systems, Inc.	Colorado Springs	CO			02

APPL-NO: 09/ 833218 [PALM]

DATE FILED: April 11, 2001

PARENT-CASE:

This application claims the benefit of provisional application No. 60/196,876, filed Apr. 12, 2000.

INT-CL: [07] B41 M 3/14

US-CL-ISSUED: 427/7; 427/8, 427/553, 427/554, 427/555, 106/31.14, 106/31.15, 283/85, 283/91, 283/92, 283/901

US-CL-CURRENT: 427/7; 106/31.14, 106/31.15, 283/85, 283/901, 283/91, 283/92, 427/553, 427/554, 427/555, 427/8

FIELD-OF-SEARCH: 427/7, 427/8, 427/553, 427/554, 427/555, 106/31.14, 106/31.15, 283/85, 283/91, 283/92, 283/901, 283/902, 428/916

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>5324567</u>	June 1994	Bratchley et al.	428/195
<u>5718754</u>	February 1998	Macpherson et al.	106/413
<u>5818047</u>	October 1998	Chaney et al.	250/341.8
<u>5853464</u>	December 1998	Macpherson et al.	106/316
<u>5935755</u>	August 1999	Kazmaier et al.	430/120

<u>6030657</u>	February 2000	Butland et al.	427/7
<u>6039894</u>	March 2000	Sanjurjo et al.	252/301.4R
<u>6155605</u>	December 2000	Bratchley et al.	283/72
<u>6203069</u>	March 2001	Outwater et al.	283/88

ART-UNIT: 1762

PRIMARY-EXAMINER: Chen; Bret

ASSISTANT-EXAMINER: Jolley; Kirsten Crockford

ATTY-AGENT-FIRM: Law Office of Dale B. Halling, LLC

ABSTRACT:

An organic or organoelement, linear or branched, monomeric or polymeric composition of matter having a Raman-active component in the form of particles. The particles having a maximum dimension of 50 .mu.m. The Raman-active compound is applied to a substrate. When the Raman-active compound is exposed to a laser light wavelength which is bathochromically well beyond a spectral region of maximum absorbance of said Raman-active compound, Raman scattering can be detected.

21 Claims, 44 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	Pub	USPTO
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☐ 4. Document ID: US 20020025490 A1 Relevance Rank: 39

L3: Entry 3 of 5

File: PGPB

Feb 28, 2002

PGPUB-DOCUMENT-NUMBER: 20020025490

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020025490 A1

TITLE: Raman-active taggants and their recognition

PUBLICATION-DATE: February 28, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Shchegolikhin, Alexander Nikitovich	Moscow	CO	RU	
Lazareva, Olga Leonidovna	Moscow		RU	
Melnikov, Valery Pavlovich	Moscow		RU	
Ozeretski, Vassili Yu	Moscow		RU	
Small, Lyle David	Peyton		US	

APPL-NO: 09/ 833218 [PALM]

DATE FILED: April 11, 2001

RELATED-US-APPL-DATA:

Application is a non-provisional-of-provisional application 60/196876, filed April

12, 2000,

INT-CL: [07] G11 B 7/24

US-CL-PUBLISHED: 430/270.15; 430/270.11, 430/270.14, 430/945, 283/90

US-CL-CURRENT: 430/270.15; 283/90, 430/270.11, 430/270.14, 430/945

REPRESENTATIVE-FIGURES: 24

ABSTRACT:

An organic or organoelement, linear or branched, monomeric or polymeric composition of matter having a Raman-active component in the form of particles. The particles having a maximum dimension of 50 .mu.m. The Raman-active compound is applied to a substrate. When the Raman-active compound is exposed to a laser light wavelength which is bathochromically well beyond a spectral region of maximum absorbance of said Raman-active compound, Raman scattering can be detected.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 5. Document ID: US 20040058058 A1 Relevance Rank: 39

L3: Entry 2 of 5

File: PGPB

Mar 25, 2004

PGPUB-DOCUMENT-NUMBER: 20040058058

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040058058 A1

TITLE: Raman-active taggants and thier recognition

PUBLICATION-DATE: March 25, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Shchegolikhin, Alexander Nikitovich	Moscow	CO	RU	
Lazareva, Olga Leonidovna	Moscow		RU	
Mel'nikov, Valery Pavlovich	Moscow		RU	
Ozeretski, Vassili Yu	Moscow		RU	
Small, Lyle David	Peyton		US	

APPL-NO: 10/ 454110 [PALM]

DATE FILED: June 4, 2003

RELATED-US-APPL-DATA:

Application 10/454110 is a division-of US application 09/833218, filed April 11, 2001, US Patent No. 6610351

Application is a non-provisional-of-provisional application 60/196876, filed April 12, 2000,

INT-CL: [07] B44 F 1/12

Refine Search

Search Results -

Term	Documents
AMPLITUDE	519649
AMPLITUDES	99096
(L3 AND AMPLITUDE).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	36
(L13 AND AMPLITUDE).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	36

Database:

US Pre-Grant Publication Full-Text Database
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 Derwent World Patents Index
 IBM Technical Disclosure Bulletins

Search:

L16

Refine Search

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Search History

DATE: Friday, March 18, 2005 [Printable Copy](#) [Create Case](#)

Set Name Query
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Hit Count Set Name
 result set

DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ

<u>L16</u>	L13 and amplitude	36	<u>L16</u>
<u>L15</u>	L14	29	<u>L15</u>
<u>L14</u>	L13 and excitation	29	<u>L14</u>
<u>L13</u>	(electrical adj impedance) and L1	54	<u>L13</u>

DB=USPT; PLUR=YES; OP=ADJ

<u>L12</u>	US-5493223-A.did.	1	<u>L12</u>
<u>L11</u>	US-5493223-A.did.	1	<u>L11</u>

DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ

<u>L10</u>	5493223	4	<u>L10</u>
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DB=USPT; PLUR=YES; OP=ADJ

<u>L9</u>	6311086.pn.	1	<u>L9</u>
<u>L8</u>	6311086.pn.	1	<u>L8</u>
<u>L7</u>	6472869.pn.	1	<u>L7</u>
<u>L6</u>	6472869.pn.	1	<u>L6</u>
<u>L5</u>	6538454.pn.	1	<u>L5</u>
<u>L4</u>	6538454.pn.	1	<u>L4</u>

DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ

<u>L3</u>	L2 and ((magnetic adj resonance) or MR or NMR or ESR)	5	<u>L3</u>
<u>L2</u>	L1 and (evanescent adj probe)	15	<u>L2</u>
<u>L1</u>	(evanescent)	7727	<u>L1</u>

END OF SEARCH HISTORY

SYSTEM:OS - DIALOG OneSearch

File 155:MEDLINE(R) 1951-2005/Mar W3
(c) format only 2005 The Dialog Corp.

File 2:INSPEC 1969-2005/Mar W2
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*File 105: This file is closed (no updates)

File 99:Wilson Appl. Sci & Tech Abs 1983-2005/Feb
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File 58:GeoArchive 1974-2005/Jan
(c) 2005 Geosystems

File 34:SciSearch(R) Cited Ref Sci 1990-2005/Mar W2
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File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
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File 292:GEOBASE(TM) 1980-2005/Jan B3
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File 89:GeoRef 1785-2005/Mar B1
(c) 2005 American Geological Institute

*File 89: Please see HELP ALERTALL for new Alert frequency and price. Please see HELP RATES 89 for new Academic Subscriber rates.

File 65:Inside Conferences 1993-2005/Mar W3
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File 350:Derwent WPIX 1963-2005/UD,UM &UP=200518
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*File 350: For more current information, include File 331 in your search. Enter HELP NEWS 331 for details.

File 347:JAPIO Nov 1976-2004/Nov(Updated 050309)
(c) 2005 JPO & JAPIO

*File 347: JAPIO data problems with year 2000 records are now fixed. Alerts have been run. See HELP NEWS 347 for details.

Set	Items	Description
S1	1596	AU=(XIANG, X? OR XIANG X?)
S2	33416	AU=(WANG, G? OR WANG G?)
S3	36542	AU=(YANG, H? OR YANG H?)
S4	71291	S1:S3
S5	123	S4 AND ELECTRIC?(2N)IMPEDANC?
S6	0	S5 AND IC=G01N-024/10
S7	10	S5 AND (SAMPL? OR MATERIAL?(2N)SAMPL?)
S8	6	RD (unique items)
S9	113	S5 NOT S7
S10	0	S9 AND EXCITAT?(2N)(SIGNAL? OR PULS? OR IMPULS? OR MAGNET? OR FIELD? ?)
S11	68788	ELECTRIC?(2N)IMPEDANC?
S12	676	IC=G01N-024/10
S13	5203763	SAMPL? OR MATERIAL?(2N)SAMPL?
S14	72053	EXCITAT?(2N)(SIGNAL? OR PULS? OR IMPULS? OR MAGNET? OR FIE- LD? ?)
S15	33193	FIELD? ?(2N)DIRECTION?
S16	8496	(VARY OR VARYING OR STATIC)(2N)AMPLITUD?
S17	76508	SELECT?(2N)(FREQUENC? OR PORTION???)
S18	50125	(EVANESCENT? OR VANISH? OR TRANSIENT? OR DECAY? OR PASS?)(- 2N)(WAVE? ? OR PROBE)
S19	4825	WAVE? ?(2N)PROBE
S20	54780	S18:S19
S21	10230	(SIGNAL? OR IMPULS? OR PULS?)(2N)CANCEL?
S22	18244	(MONITOR? OR MEASUR? OR TEST? OR CHECK? OR EXAMIN? OR ANAL- YS? OR ANALYZ? OR VERIF? OR IDENTIF? OR DETECT? OR SENSE? OR - SENSING? OR INSPECT?)(2N)PORT? ?
S23	30991	(NOIS? OR SIGNAL? OR PULS? OR IMPULS?)(2N)AMPLIFICAT?
S24	5721	S13 AND S14
S25	10	S24 AND S11
S26	10	RD (unique items)
S27	5711	S24 NOT S25
S28	9	S27 AND S12
S29	9	RD (unique items)
S30	5702	S27 NOT S28
S31	4294	S11 AND S13
S32	1	S31 AND S12
S33	4293	S31 NOT S32
S34	4	S33 AND S15
S35	4	RD (unique items)
S36	4289	S33 NOT S34
S37	17	S36 AND S17
S38	0	S37 AND S18
S39	0	S37 AND S20
S40	0	S37 AND S21
S41	0	S37 AND S22
S42	16	RD S37 (unique items)
S43	0	S42 AND S14
S44	16	S42
S45	4272	S36 NOT S37
S46	11	S45 AND S20
S47	10	RD (unique items)
S48	4261	S45 NOT S46
S49	0	S48 AND S21
S50	3	S48 AND S22

03/21/2005

10/759,745

S51	3	RD (unique items)
S52	4258	S48 NOT S50
S53	0	S52 AND S22
S54	5	S52 AND S23
S55	5	RD (unique items)
S56	14	S22 AND S23
S57	14	RD (unique items)
S58	0	S57 AND S11
S59	0	S57 AND S12
S60	1	S57 AND S14
S61	13	S57 NOT S60
S62	13	RD (unique items)
S63	11	S21 AND S20
S64	2	S63 AND (S11 OR S12 OR S13)
S65	2	RD (unique items)
S66	9	S63 NOT S64
S67	0	S66 AND S16
S68	0	S66 AND S17
S69	8	RD S66 (unique items)
S70	220	S11 AND S14
S71	1	S70 AND S22
S72	219	S70 NOT S71
S73	0	S72 AND S23
S74	1	S72 AND S15
S75	218	S72 NOT S74
S76	380	S14 AND S20
S77	7	S76 AND IMPEDANC?
S78	3	RD (unique items)